

Section 1. Registration Information

Source Identification

Facility Name:	Fountain Hills Wastewater Treatment Plant
Parent Company #1 Name:	
Parent Company #2 Name:	

Submission and Acceptance

Submission Type:	Re-submission
Subsequent RMP Submission Reason:	Voluntary update (not described by any of the above reasons)
Description:	
Receipt Date:	10-Feb-2012
Postmark Date:	10-Feb-2012
Next Due Date:	10-Feb-2017
Completeness Check Date:	10-Feb-2012
Complete RMP:	Yes
De-Registration / Closed Reason:	
De-Registration / Closed Reason Other Text:	
De-Registered / Closed Date:	
De-Registered / Closed Effective Date:	
Certification Received:	Yes

Facility Identification

EPA Facility Identifier:	1000 0010 1203
Other EPA Systems Facility ID:	

Dun and Bradstreet Numbers (DUNS)

Facility DUNS:	
Parent Company #1 DUNS:	
Parent Company #2 DUNS:	

Facility Location Address

Street 1:	16941 East Pepperwood Circle
Street 2:	
City:	Fountain Hills
State:	ARIZONA
ZIP:	85268
ZIP4:	2901
County:	MARICOPA

Facility Latitude and Longitude

Latitude (decimal):	33.614920
Longitude (decimal):	-111.714172
Lat/Long Method:	Interpolation - Photo
Lat/Long Description:	Center of Facility
Horizontal Accuracy Measure:	25
Horizontal Reference Datum Name:	North American Datum of 1983
Source Map Scale Number:	24000

Owner or Operator

Operator Name:	Fountain Hills Sanitary District
Operator Phone:	(480) 837-9444

Mailing Address

Operator Street 1:	16941 East Pepperwood Circle
Operator Street 2:	
Operator City:	Fountain Hills
Operator State:	ARIZONA
Operator ZIP:	85268
Operator ZIP4:	2901
Operator Foreign State or Province:	
Operator Foreign ZIP:	
Operator Foreign Country:	

Name and title of person or position responsible for Part 68 (RMP) Implementation

RMP Name of Person:	Clark A. Moskop
RMP Title of Person or Position:	WWTP Operations Manager
RMP E-mail Address:	clarkmoskop@az-fhds.gov

Emergency Contact

Emergency Contact Name:	Clark A. Moskop
Emergency Contact Title:	WWTP Operations Manager
Emergency Contact Phone:	(480) 837-9444
Emergency Contact 24-Hour Phone:	(480) 797-4265
Emergency Contact Ext. or PIN:	
Emergency Contact E-mail Address:	clarkmoskop@az-fhds.gov

Other Points of Contact

Facility or Parent Company E-mail Address:	FountainHillsSanitaryDistrict@az-fhds.gov
Facility Public Contact Phone:	(480) 837-9444
Facility or Parent Company WWW Homepage Address:	

Local Emergency Planning Committee

LEPC:	Maricopa County LEPC
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Full Time Equivalent Employees

Number of Full Time Employees (FTE) on Site:	38
FTE Claimed as CBI:	

Covered By

OSHA PSM :	Yes
EPCRA 302 :	Yes
CAA Title V:	

Air Operating Permit ID:

OSHA Ranking

OSHA Star or Merit Ranking:

Last Safety Inspection

Last Safety Inspection (By an External Agency) Date:	26-Feb-2009
Last Safety Inspection Performed By an External Agency:	Fire Department

Predictive Filing

Did this RMP involve predictive filing?:

Preparer Information

Preparer Name:	ETC Compliance Solutions
Preparer Phone:	(602) 923-9673
Preparer Street 1:	5677 East Speedway Blvd
Preparer Street 2:	
Preparer City:	Tucson
Preparer State:	ARIZONA
Preparer ZIP:	85712
Preparer ZIP4:	5021
Preparer Foreign State:	
Preparer Foreign Country:	
Preparer Foreign ZIP:	

Confidential Business Information (CBI)

CBI Claimed:
Substantiation Provided:
Unsanitized RMP Provided:

Reportable Accidents

Reportable Accidents:	See Section 6. Accident History below to determine if there were any accidents reported for this RMP.
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Process Chemicals

Process ID:	1000032534
Description:	
Process Chemical ID:	1000039558
Program Level:	Program Level 3 process
Chemical Name:	Chlorine
CAS Number:	7782-50-5
Quantity (lbs):	14000
CBI Claimed:	
Flammable/Toxic:	Toxic

Process NAICS

Process ID:	1000032534
Process NAICS ID:	1000032796
Program Level:	Program Level 3 process
NAICS Code:	22132
NAICS Description:	Sewage Treatment Facilities

Section 2. Toxics: Worst Case

Toxic Worst ID: 1000026899

Percent Weight:

Physical State:

Model Used:

Release Duration (mins):

Wind Speed (m/sec):

Atmospheric Stability Class:

Topography:

Gas liquified by pressure

EPA's RMP*Comp(TM)

10

1.5

F

Urban

Passive Mitigation Considered

Dikes:

Enclosures:

Berms:

Drains:

Sumps:

Other Type:

Section 3. Toxics: Alternative Release

Toxic Alter ID: 1000028708

Percent Weight:

Physical State:

Model Used:

Wind Speed (m/sec):

Atmospheric Stability Class:

Topography:

Gas liquified by pressure

EPA's RMP*Comp(TM)

3.0

D

Urban

Passive Mitigation Considered

Dikes:

Enclosures:

Berms:

Drains:

Sumps:

Other Type:

Yes

Active Mitigation Considered

Sprinkler System:

Deluge System:

Water Curtain:

Neutralization:

Excess Flow Valve:

Flares:

Scrubbers:

Emergency Shutdown:

Other Type:

Yes

Yes

Yes

Section 4. Flammables: Worst Case

No records found.

Section 5. Flammables: Alternative Release

No records found.

Section 6. Accident History

No records found.

Section 7. Program Level 3

Description

No description available.

Program Level 3 Prevention Program Chemicals

Prevention Program Chemical ID:	1000033983
Chemical Name:	Chlorine
Flammable/Toxic:	Toxic
CAS Number:	7782-50-5

Prevention Program Level 3 ID:	1000028306
NAICS Code:	22132

Safety Information

Safety Review Date (The date on which the safety information was last reviewed or revised):	23-Dec-2011
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Process Hazard Analysis (PHA)

PHA Completion Date (Date of last PHA or PHA update):	28-Jun-2009
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The Technique Used

What If:	
Checklist:	
What If/Checklist:	Yes
HAZOP:	
Failure Mode and Effects Analysis:	
Fault Tree Analysis:	
Other Technique Used:	
PHA Change Completion Date (The expected or actual date of completion of all changes resulting from last PHA or PHA update):	29-Jul-2011

Major Hazards Identified

Toxic Release:	Yes
Fire:	Yes
Explosion:	
Runaway Reaction:	
Polymerization:	
Overpressurization:	Yes
Corrosion:	Yes
Overfilling:	Yes
Contamination:	Yes
Equipment Failure:	Yes
Loss of Cooling, Heating, Electricity, Instrument Air:	Yes
Earthquake:	
Floods (Flood Plain):	

Tornado:
Hurricanes:
Other Major Hazard Identified:

Process Controls in Use

Vents:	Yes
Relief Valves:	
Check Valves:	
Scrubbers:	Yes
Flares:	
Manual Shutoffs:	Yes
Automatic Shutoffs:	
Interlocks:	Yes
Alarms and Procedures:	Yes
Keyed Bypass:	
Emergency Air Supply:	
Emergency Power:	Yes
Backup Pump:	
Grounding Equipment:	
Inhibitor Addition:	
Rupture Disks:	Yes
Excess Flow Device:	
Quench System:	
Purge System:	
None:	
Other Process Control in Use:	

Mitigation Systems in Use

Sprinkler System:	Yes
Dikes:	
Fire Walls:	Yes
Blast Walls:	
Deluge System:	
Water Curtain:	
Enclosure:	Yes
Neutralization:	Yes
None:	
Other Mitigation System in Use:	

Monitoring/Detection Systems in Use

Process Area Detectors:	Yes
Perimeter Monitors:	
None:	
Other Monitoring/Detection System in Use:	

Changes Since Last PHA Update

Reduction in Chemical Inventory:
Increase in Chemical Inventory:
Change Process Parameters:
Installation of Process Controls:
Installation of Process Detection Systems:

Installation of Perimeter Monitoring Systems:

Installation of Mitigation Systems:

None Recommended:

None: Yes

Other Changes Since Last PHA or PHA Update:

Review of Operating Procedures

Operating Procedures Revision Date (The date of the most recent review or revision of operating procedures): 07-Feb-2012

Training

Training Revision Date (The date of the most recent review or revision of training programs): 07-Feb-2012

The Type of Training Provided

Classroom: Yes

On the Job: Yes

Other Training:

The Type of Competency Testing Used

Written Tests: Yes

Oral Tests: Yes

Demonstration: Yes

Observation: Yes

Other Type of Competency Testing Used:

Maintenance

Maintenance Procedures Revision Date (The date of the most recent review or revision of maintenance procedures): 08-Feb-2012

Equipment Inspection Date (The date of the most recent equipment inspection or test): 10-Feb-2012

Equipment Tested (Equipment most recently inspected or tested): Chlorine Feed System Components-Completed twice per shift each day.

Management of Change

Change Management Date (The date of the most recent change that triggered management of change procedures): 18-Nov-2004

Change Management Revision Date (The date of the most recent review or revision of management of change procedures): 23-Dec-2011

Pre-Startup Review

Pre-Startup Review Date (The date of the most recent pre-startup review): 15-Jul-2004

Compliance Audits

Compliance Audit Date (The date of the most recent compliance audit): 20-Aug-2009

Compliance Audit Change Completion Date (Expected or actual date of completion of all changes resulting from the compliance audit): 29-Jul-2011

Incident Investigation

Incident Investigation Date (The date of the most recent incident investigation (if any)): 20-May-2010

Incident Investigation Change Date (The expected or actual date of completion of all changes resulting from the investigation): 20-May-2010

Employee Participation Plans

Participation Plan Revision Date (The date of the most recent review or revision of employee participation plans): 23-Dec-2011

Hot Work Permit Procedures

Hot Work permit Review Date (The date of the most recent review or revision of hot work permit procedures): 23-Dec-2011

Contractor Safety Procedures

Contractor Safety Procedures Review Date (The date of the most recent review or revision of contractor safety procedures): 23-Dec-2011

Contractor Safety Performance Evaluation Date (The date of the most recent review or revision of contractor safety performance):

Confidential Business Information

CBI Claimed:

Section 8. Program Level 2

Section 9. Emergency Response

Written Emergency Response (ER) Plan

Community Plan (Is facility included in written community emergency response plan?): Yes

Facility Plan (Does facility have its own written emergency response plan?): Yes

Response Actions (Does ER plan include specific actions to be taken in response to accidental releases of regulated substance(s)?): Yes

Public Information (Does ER plan include procedures for informing the public and local agencies responding to accidental release?): Yes

Healthcare (Does facility's ER plan include information on emergency health care?): Yes

Emergency Response Review

Review Date (Date of most recent review or update of facility's ER plan): 28-Nov-2011

Emergency Response Training

Training Date (Date of most recent review or update of facility's employees): 30-Jan-2012

Local Agency

Agency Name (Name of local agency with which the facility ER plan or response activities are coordinated): Fountain Hills Fire Department

Agency Phone Number (Phone number of local agency with which the facility ER plan or response activities are coordinated): (480) 837-9820

Subject to

OSHA Regulations at 29 CFR 1910.38: Yes

OSHA Regulations at 29 CFR 1910.120:

Clean Water Regulations at 40 CFR 112:

RCRA Regulations at CFR 264, 265, and 279.52:

OPA 90 Regulations at 40 CFR 112, 33 CFR 154, 49 CFR 194, or 30 CFR 254:

State EPCRA Rules or Laws: Yes

Other (Specify):

Executive Summary

Executive Summary

Fountain Hills Sanitary District (FHSD) is required to prepare a Risk Management Plan, in accordance with 40 CFR Part 68, due to the on-site storage of greater than 2,500 pounds of liquid chlorine. The chlorine is used as a standard part of daily operations at the facility. EPA issued revisions to the RMP regulations on April 9, 2004 that required facilities covered by 40 CFR 68 to submit additional information, regardless of the timing of their next 5-year update.

FHSD originally submitted their RMP on June 15, 1999, in compliance with the June 21, 1999 deadline. In 2001, the facility switched to 1-ton chlorine cylinders necessitating an update to the RMP. As the modified plan was submitted in 2001, FHSD's next update would be due in 2006. FHSD has elected to file this fully updated RMP, in compliance with the April 9, 2004 regulatory revisions, instead of only submitting the requisite information. EPA's guidance stated that all changes to the RMP may be made using RMP*Submit 2004, except for updates to the Executive Summary. The method now used to submit the RMP to the EPA, is RMP e*Submit.

FHSD uses a series of safe handling procedures to ensure the proper handling of the 1-ton chlorine cylinders and safe handling of chlorine throughout the wastewater treatment plant. These procedures are documented in the Standard Operating Procedures (SOPs). The SOPs are clearly visible in the chlorine building, and are reviewed as part of initial and annual refresher training. These procedures include: safe handling for loading and unloading chlorine cylinders; start-up; normal operations; cylinder change-out; normal shut-down; and temporary operations.

FHSD operates a redundant chlorine alarm system with a full emergency power back-up system. The system is tested on a routine basis. Should a chlorine gas leak occur, the building is automatically sealed and vapors are directed through the wet-scrubber. The system automatically notifies the FHSD Wastewater Treatment Plant Operations Staff, as well as the local emergency response network. The system has been successfully tested numerous times over the past five years. There have been no accidental releases of chlorine gas in the past 5-years.

FHSD elected to use 1-ton gas cylinders after the original RMP was submitted in 1999. Using the process change management system per the Process Safety Management Plan, FHSD successfully implemented the new system and updated this RMP with the necessary changes in 2001.

FHSD is a Wastewater Treatment Plant included in SIC Code 4952 and NAICS Code 22132. The completed Registration Form is located in Appendix A.